NEW MINERALS APPROVED IN 2010
NOMENCLATURE MODIFICATIONS APPROVED IN 2010
BY THE
COMMISSION ON NEW MINERALS, NOMENCLATURE AND CLASSIFICATION
INTERNATIONAL MINERALOGICAL ASSOCIATION

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The information given here is provided by the Commission on New Minerals and Mineral Names, I.M.A., for comparative purposes and as a service to mineralogists working on new species.

Each mineral is described in the following format:

IMA number
Type locality
Corresponding author
Chemical formula
Relationship to other minerals
Crystal system, Space group; Structure determined, yes or no
Unit-cell parameters
Strongest lines in the X-ray powder-diffraction pattern

The names of these approved species are considered confidential information until the authors have published their descriptions or released information themselves.

NO OTHER INFORMATION WILL BE RELEASED BY THE COMMISSION

PROPOSALS APPROVED IN JANUARY 2010

IMA No. **2009-076**
Sebastião Cristino pegmatite, near Mendes Pimentel and Linópolis, Minas Gerais, Brazil (18°42'S 41°27'W)
Frédéric Hatert
$Na_2Fe^{2+}MgAl(PO_4)_3$
Wyllieite group
Monoclinic: $P2_1/n$; structure determined
a 11.910(2), b 12.383(3), c 5.1798(1) Å, β 114.43(3)º

3.468(35), 3.047(100), 2.849(80), 2.810(35), 2.711(40), 2.688(90), 2.500(40), 2.074(30)

IMA No. **2009-077**
Maria Catalina mine, Tierra Amarilla, Chile (22°3'S 68°30' W)
Hexiong Yang
$Ca_2Cu(AsO_4)_2 \cdot 2H_2O$
Roselite group
Monoclinic: $P2_1/c$; structure determined
a 5.8618(2), *b* 12.7854(5), *c* 5.7025(2) Å, β 109.425(2)º
5.087(42), 4.177(59), 3.800(41), 3.377(92), 3.190(56), 2.983(89), 2.827(100), 2.114(49)

IMA No. **2009-078**
Grubependity Lake cirque (кар озера Грубепендиты), Grubependity Lake,Maldynyrd range, Kozhim River basin, Prepolar Ural, Komi Republic, Russia, several kilometres from the Chudnoe Pd–Au–Cr deposit
Stuart J. Mills
$LaAl_3(AsO_4)_2(OH)_6$
Alunite supergroup
Trigonal: $R\bar{3}m$; structure determined
a 7.0316(3), *c* 16.5151(8) Å
5.755(27), 3.538(55), 2.982(100), 2.211(28), 2.179(19), 1.914(38), 1.767(24), 1.298(18)

IMA No. **2009-079**
About 25 km southwest from Monte Metocha, Xixano region, north-eastern Mozambique
Roberta Oberti
$KNa_2(Mg_4Fe^{3+})Si_8O_{22}F_2$
Amphibole group
Monoclinic: *C*2/*m*; structure determined
a = 9.9591(4), *b* = 17.9529(6) , *c* = 5.2867(2) Å, β = 103.340(1)º
8.499(58), 3.394(81), 3.286(43), 3.166(60), 2.746(43), 2.707(100), 2.583(45), 2.537(70)

IMA No. **2009-080**
Prasolovskoe gold deposit, Kunashir Island, Kurile Islands, Russian Federation (44º23'N 146º01'E)
Vladimir A. Kovalenker
Ag_8Te_3Se
New structure type
Trigonal: *R*3 or $R\bar{3}$
a = 15.812(2), *c* = 19.622(4) Å
3.727(20), 2.996(50), 2.510(30), 2.201(100), 2.152(20), 2.079(30), 2.046(20), 1.817(20)

IMA No. **2009-081**
Giftkiesstollen adit, Jáchymov, Czech Republic
Roman Skála

$K_4(UO_2)(CO_3)_3$
Known structure type
Monoclinic: *C*2/*c*; structure determined
a = 10.2380(2), *b* = 9.1930(2), *c* = 12.2110(3) Å, β = 95.108(2)º
6.061(55), 5.793(30), 5.087(57), 3.740(100), 3.393(44), 2.408(33), 2.281(52), 1.873(40)

IMA No. **2009-082**
Shiti barium deposit, Dabashan region, Shanxi Province, China (32°43'45" to 32°45'06"N 109°08'22" to 109°10'20"E)
Jiajun Liu
$Ba_2(Ca,Mg)(V^{3+},Al)_2(Si_4O_{10})(OH,F)_2O(CO_3)_2$
New structure type
Monoclinic: *Cc*; structure determined
a = 5.2050(12), *b* = 9.033(2), *c* = 32.077(8) Å, β = 93.49(8)º
15.87(7), 5.340(91), 4.010(10), 3.209(23), 2.676(100), 2.294(29), 2.008(11), 1.607(4)

IMA No. **2009-083**
Jeffrey Mine, Asbestos, Shipton Township, Richmond County, Quebec, Canada
Ralph Rowe
Ni_3Sn
Isostructural with auricupride
Cubic: *Pm*3*m*; structure determined
a = 3.7344(7) Å
3.728(27), 2.639(22), 2.155(100), 1.867(45), 1.671(10), 1.525(6), 1.320(25), 1.127(22)

IMA No. **2009-084**
Sabatini volcanic complex, Valle Biachella, Sacrofano community, Rome Province, Latium, Italy
Fabio Bellatreccia
$[Na_5Ca_2K]_8(Si_6Al_6O_{24})(SO_4)_2 \cdot 0.33H_2O$
Cancrinite group
Trigonal: *R*32; structure determined
a = 12.8770(7), *c* = 95.244(6) Å
3.80(52), 3.72(100), 3.60(53), 3.58(60), 3.55(24), 3.23(65), 3.22(38), 2.65(100)

IMA No. **2009-085**
Verkhnee Espe deposit, Akjailyautas Mountains, Kazakhstan (48º03'-48º10'N 81º26'-81º29'E)
Frank C. Hawthorne
$NaNa_2(Mg_2Fe^{3+}{}_2Li)Si_8O_{22}F_2$
Amphibole group
Monoclinic: *C*2/*m*; structure determined
a = 9.8297(3), *b* = 17.9257(6), *c* = 5.2969(2) Å, β = 103.990(1)º
8.434(40), 4.464(30), 3.405(30), 3.137(20), 2.718(100), 2.541(20), 2.325(15), 2.166(20)